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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/712,097

11/14/2003

Daisuke Nakamura

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1950

22428 7590 02/23/2007

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EXAMINER

HAUGLAND, SCOTT J

ART UNIT

PAPER NUMBER

3654

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

02/23/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/712,097

Applicant(s)

NAKAMURA ET AL.

Examiner

Scott Haugland

Art Unit

3654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 December 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8, 10-16 and 18-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10-16 and 18-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/28/06 has been entered.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 3/2, 12-16, 18, 19, 21, and 23-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, the limitation "wherein at least one of the support members comprises one of the contact members" on lines 38-39 was previously claimed.

Claim 2, lines 39-40 appear to recite that the contact members are support members. This is unclear since support members were previously recited and the previously recited support members were claimed as comprising the contact members.

The relationship between the support device(s) on lines 1, 2, 3-4, 5, 12-13, and 14 of claim 24 is not clearly set forth in the claim.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-8, 10-16, and 18-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over either of JP 6-115786 or JP 6-74104 in view of Lundy et al (U.S. Pat. No. 4,694,559).

JP '786 and JP '104 disclose structure for decreasing the distance between roll supports and include pressure change assigning means for changing the pressing force of the roll supports against an inner tube of the roll. The roll supporting and pressure change structures of both apparatus are capable of increasing pressing force in the event of occurrence of an emergency stop signal of a rotary press.

The Japanese documents do not disclose the claimed details of the support members.

Lundy et al teaches forming support members of a roll support device with a contact member 16, an insertion section 14, and a flange (face of 13 parallel to 22 of contact member 16). The contact members travel along inclined dovetail/slit grooves 28

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formed in the surface of the insertion section that are gradually shallower in a radial direction. Each contact member comprises an erected section 22 and a base section 20.

It would have been obvious to one having ordinary skill in the art to provide the roll support device of JP '786 or JP '104 with support members each having a contact member, an insertion section having inclined dovetail/slit grooves in which the contact member travels, and a flange fixed relative to the insertion section as taught by Lundy et al to permit the support members to grip and securely hold the paper roll.

### ***Response to Arguments***

Applicants' arguments filed 12/28/06 have been fully considered but they are not persuasive.

Applicants argue that Miller et al does not disclose or suggest a paper roll support device that comprises a pair of support means that each comprise a support member wherein the support members each comprise a contact member, an insertion section having a surface, and a flange, wherein the insertion section is fixed relative to the flange and that the slots for pieces 52 in Miller et al are not gradually shallower in a radial direction as required by claims 10 and 18. However, Lundy et al teaches providing a paper roll support with a contact member 16, an insertion section 14, a flange (face of 13 parallel to 22 of contact member 16), and inclined grooves 28 in the insertion section that are gradually shallower in a radial direction. Forming the support members of the Japanese documents, which are not shown in detail, in the manner

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taught by Lundy et al would have been obvious to provide them with the desired core securing capability.

Applicants argue that the applied references do not disclose or suggest a device as claimed in claim 24 wherein the contact member is configured to extend from the insertion section due to contact between the contact member and the inner tube. This is, also, taught by Lundy et al. The contact member 16 extends from insertion section 14. Engagement with a roll core causes contact member 16 to move radially outward and axially.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Guttin (U.S. Pat. No. 6,533,214), Eronen (U.S. Pat. No. 5,679,108), Dorfel et al (U.S. Pat. No. 5,524,849), Salvador Castillo (U.S. Pat. No. 4,284,251), Gustafson et al (U.S. Pat. No. 4,149,682), Hehner (U.S. Pat. No. 4,148,444), and Greenhalgh (U.S. Pat. No. 3,881,666) are cited to further show expandable roll supports. Ogawa et al (U.S. Pat. No. 6,328,249) and Wyckoff et al (U.S. Pat. No. 3,997,176) are cited to show roll supports having contact members slidable in dovetail grooves.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Haugland whose telephone number is (571) 272-6945. The examiner can normally be reached on Mon. - Fri., 10:00 am - 6:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

10/9/07  
sjh  
2/9/07



**WILLIAM A. RIVERA**  
**PRIMARY EXAMINER**